

Jobs API 1.0 OAS3

Servers  
https://jobs-api-06.herokuapp.com/api/v1 ▾

Auth

POST /auth/register Register User

POST /auth/login Login User

Jobs

POST /jobs Create Job

GET /jobs Get All Jobs

GET /jobs/{id} Get Single Job

PATCH /jobs/{id} Update Job

viết API docs với Swagger

Jump to Favorites, Apps, Pipelines, Spaces...

Personal

Filter apps and pipelines

jobs-api-06

Node.js • heroku-20 • United States

svelte-store-project-server

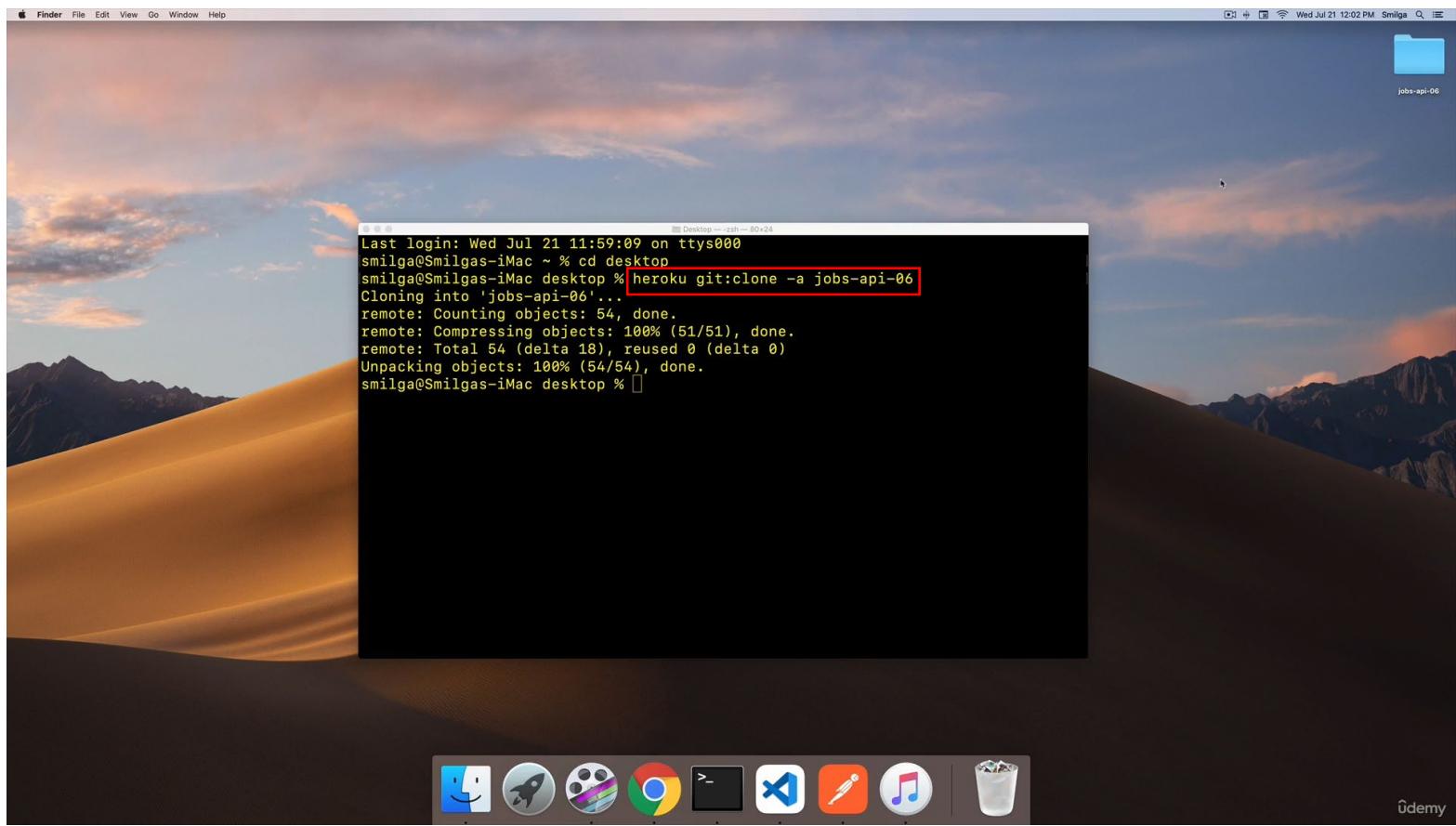
Node.js • heroku-18 • United States

vintage-tech-store-react-api

Node.js • heroku-18 • United States

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clone heroku app >> lấy tên app



lúc này đã point tới app trong heroku >> sau này muốn sửa gì chỉ cần push là xong

A screenshot of the Heroku dashboard. The URL in the address bar is [dashboard.heroku.com/apps/jobs-api-06/settings](#). The page shows the "jobs-api-06" app settings. Under the "App Information" section, the "App Name" is set to "jobs-api-06". Below it, the "Region" is "United States" and the "Stack" is "heroku-20". The "Framework" is "Node.js", "Slug size" is "40.3 MiB of 500 MiB", and the "Heroku git URL" is "<https://git.heroku.com/jobs-api-06.git>". In the "Config Vars" section, there is a note: "Config vars change the way your app behaves. In addition to creating your own, some add-ons come with their own." Below this, a "Reveal Config Vars" button is highlighted with a red box and a cursor arrow pointing to it. The "Buildpacks" section is partially visible at the bottom.

nhưng trong app của chúng ta sau khi clone từ heroku về sẽ thiếu .env và node\_modules/ >> vào heroku và lấy rồi bỏ vào .env

The screenshot shows the VS Code interface. The left sidebar has 'OPEN EDITORS' expanded, showing 'app.js' and 'JOBS-API-06'. 'JOBS-API-06' contains sub-folders like 'controllers', 'db', 'errors', 'middleware', 'models', and 'routes'. A file named '.env' is highlighted with a red box. The main editor area shows the code for 'app.js'. The terminal at the bottom shows the command 'npm install && npm start' being run, with the output 'idealTree: timing idealTree Completed in 111ms'. The status bar at the bottom right indicates 'Ln 15, Col 11' and other settings.

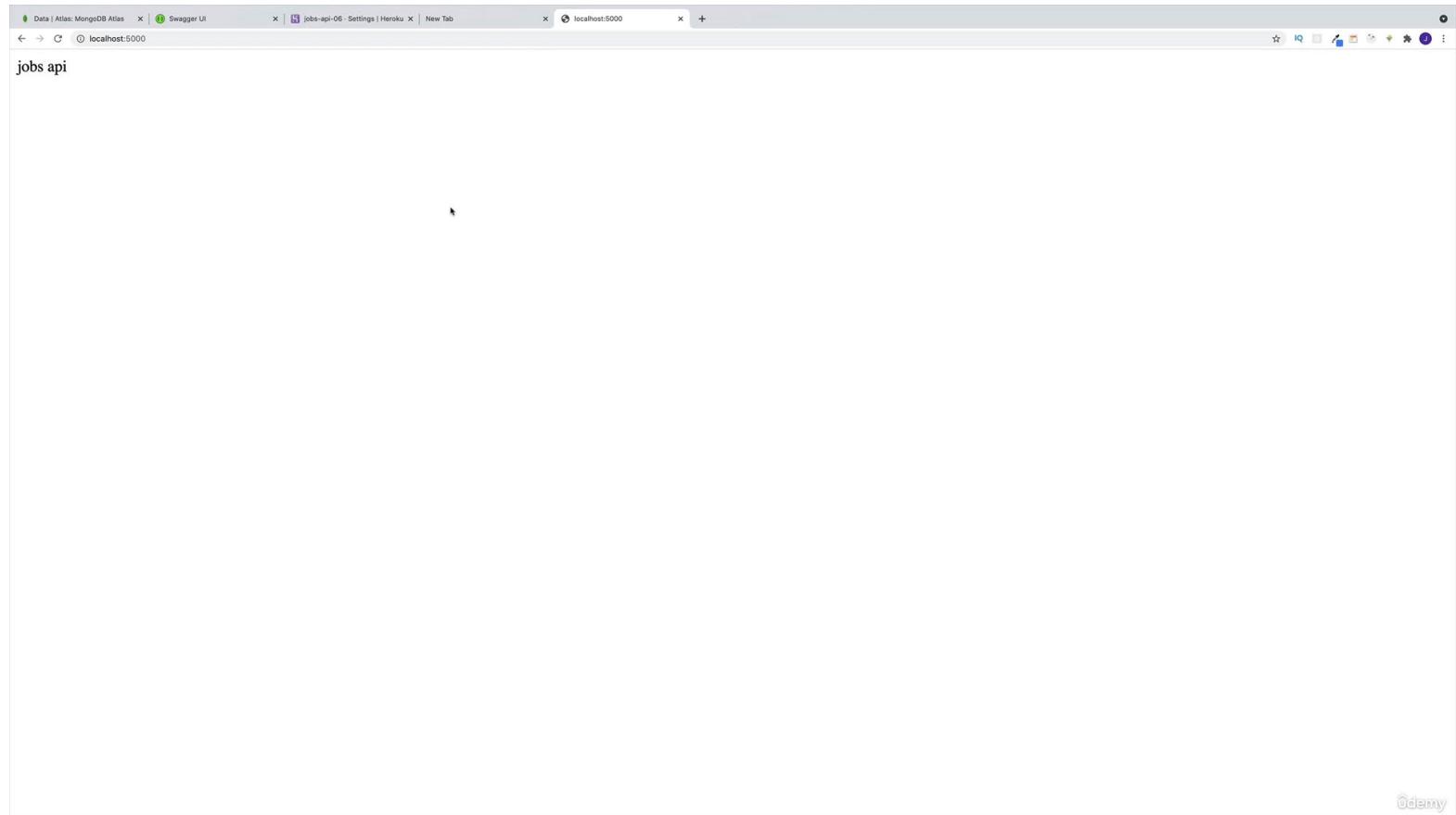
```
require('dotenv').config();
require('express-async-errors');

// extra security packages
const helmet = require('helmet');
const cors = require('cors');
const xss = require('xss-clean');
const rateLimiter = require('express-rate-limit');

const express = require('express');
const app = express();

const connectDB = require('./db/connect');
const authenticateUser = require('./middleware/authentication');
// routers
const authRouter = require('./routes/auth');
const jobsRouter = require('./routes/jobs');
// error handler
const notFoundMiddleware = require('./middleware/not-found');

smilga@Smilgas-iMac jobs-api-06 % npm install && npm start
(([redacted])) : idealTree: timing idealTree Completed in 111ms
```



lúc này đã có thể chạy dc ở local

## Export Postman Docs

The screenshot shows the Postman application interface. On the left, the sidebar has sections for Collections, APIs, Environments, Mock Servers, Monitors, and History. Under Collections, there is a 'My Workspace' section with a '06-Jobs-API' collection expanded, showing requests like 'Register User', 'Login User', and 'Create Job'. Other collections like '03-Task-Manager', '04-Store-API', '05-JWT-Basics', and '07-E-Commerce' are also listed. The main workspace shows a '06-Jobs-API / Get All Jobs' request. The request method is 'GET' with the URL '{{PROD\_URL}}/jobs'. The 'Params' tab is selected, showing a single 'Query Params' entry with 'Key' and 'Value' columns. The 'Headers' tab shows 9 entries. The 'Send' button is visible at the top right. Below the request, there is a 'Response' section with a cartoon character and the text 'Hit send to get a response'.

kiểm tra lại variable >> make sure all of them use the same variable

This screenshot shows the same Postman interface as above, but with a context menu open over the '06-Jobs-API' collection in the sidebar. The menu options include 'Share collection', 'Run collection', 'Edit', 'Add request', 'Add folder', 'Monitor collection', 'Mock collection', 'Create a fork', 'Create Pull Request', 'Merge changes', 'View documentation', 'Rename', 'Duplicate', and 'Export'. The 'Export' option is highlighted with a red box. The main workspace shows the 'Get All Jobs' request and its details. The 'Response' section is also visible at the bottom.

## My Workspace

New Import

GET Get All Jobs

06-Jobs-API

+ + More

06-Jobs-API / Get All Jobs

GET {{PROD\_URL}}/jobs

Params Authorization Headers (9) Body Pre-request Script Tests Settings

Query Params

KEY Key

## EXPORT COLLECTION

Sharing this with a teammate? Create a team to seamlessly share it and keep your team up-to-date with the changes in realtime. [Create Team](#)

06-Jobs-API will be exported as a JSON file. Export as:

- Collection v2  
 Collection v2.1 (recommended)

[Learn more about collection formats](#)

Cancel

Export



Hit send to get a response

Find and Replace Console

Bootcamp Runner Trash Udemy

## My Workspace

New Import

GET Get All Jobs

06-Jobs-API

+ + More

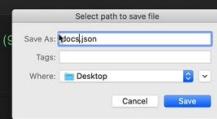
06-Jobs-API / Get All Jobs

GET {{PROD\_URL}}/jobs

Params Authorization Headers (9) Body Pre-request Script Tests Settings

Query Params

KEY Key



## DESCRIPTION

Description

Mock Servers

Environments

Monitors

History

&gt; 07-E-Commerce

Find and Replace Console

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APIMATIC

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A central illustration shows a person meditating in a lotus position with their hands in mudras. Above them is a cursor icon pointing upwards. Surrounding the meditating figure are various icons representing different technologies and platforms: an Apple logo, a coffee cup, a Windows logo, Python, Go, PHP, Node.js, and an Android logo. A speech bubble above the person says "DON'T MAKE ME CODE".

Help Udemy

Helping companies create beautiful API documentation and an enhanced developer experience

hiện tại chúng ta ko thể up thẳng postman docs tới Swagger >>> phải format data trước

APIMATIC Dashboard Current Version: V3.0 P peter

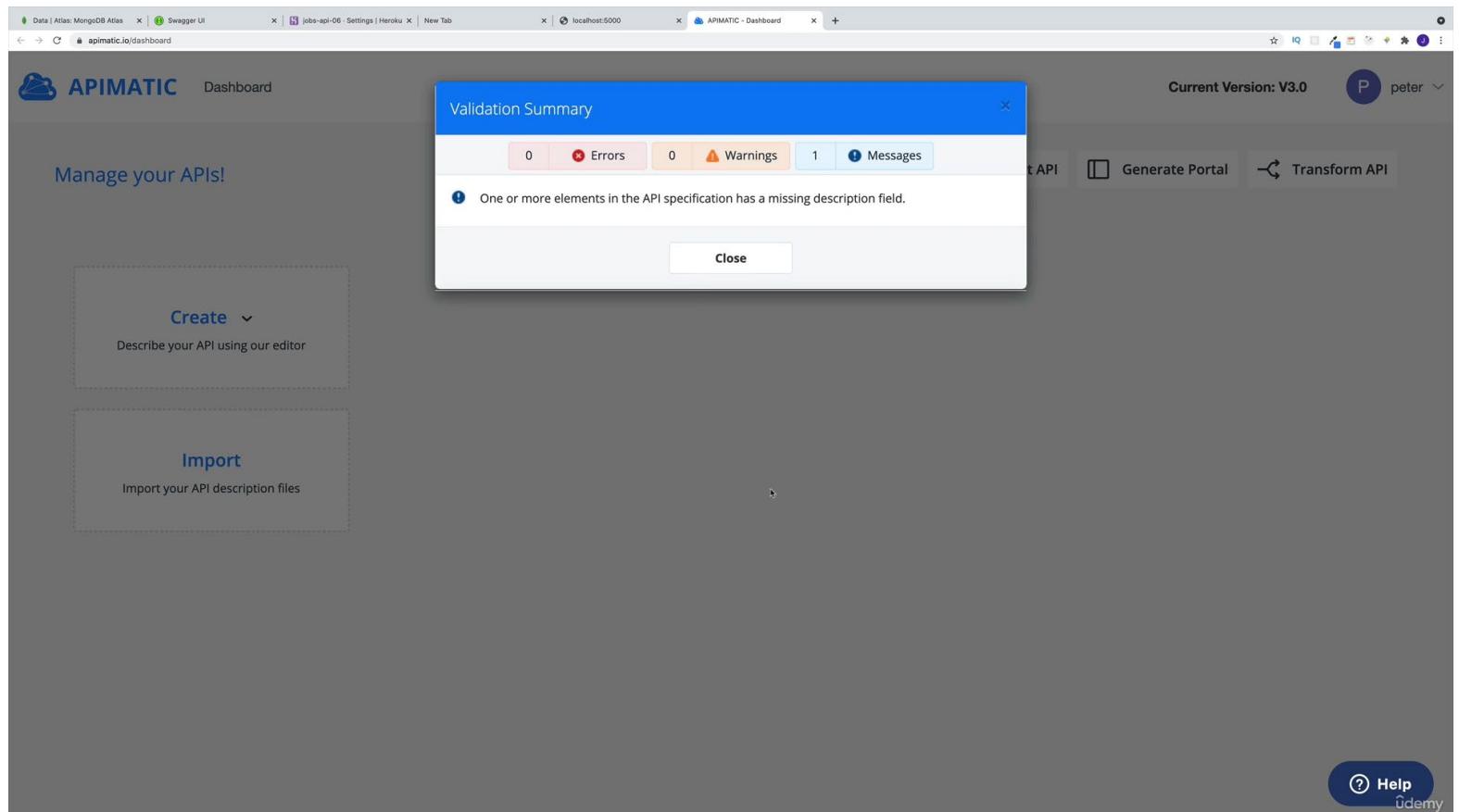
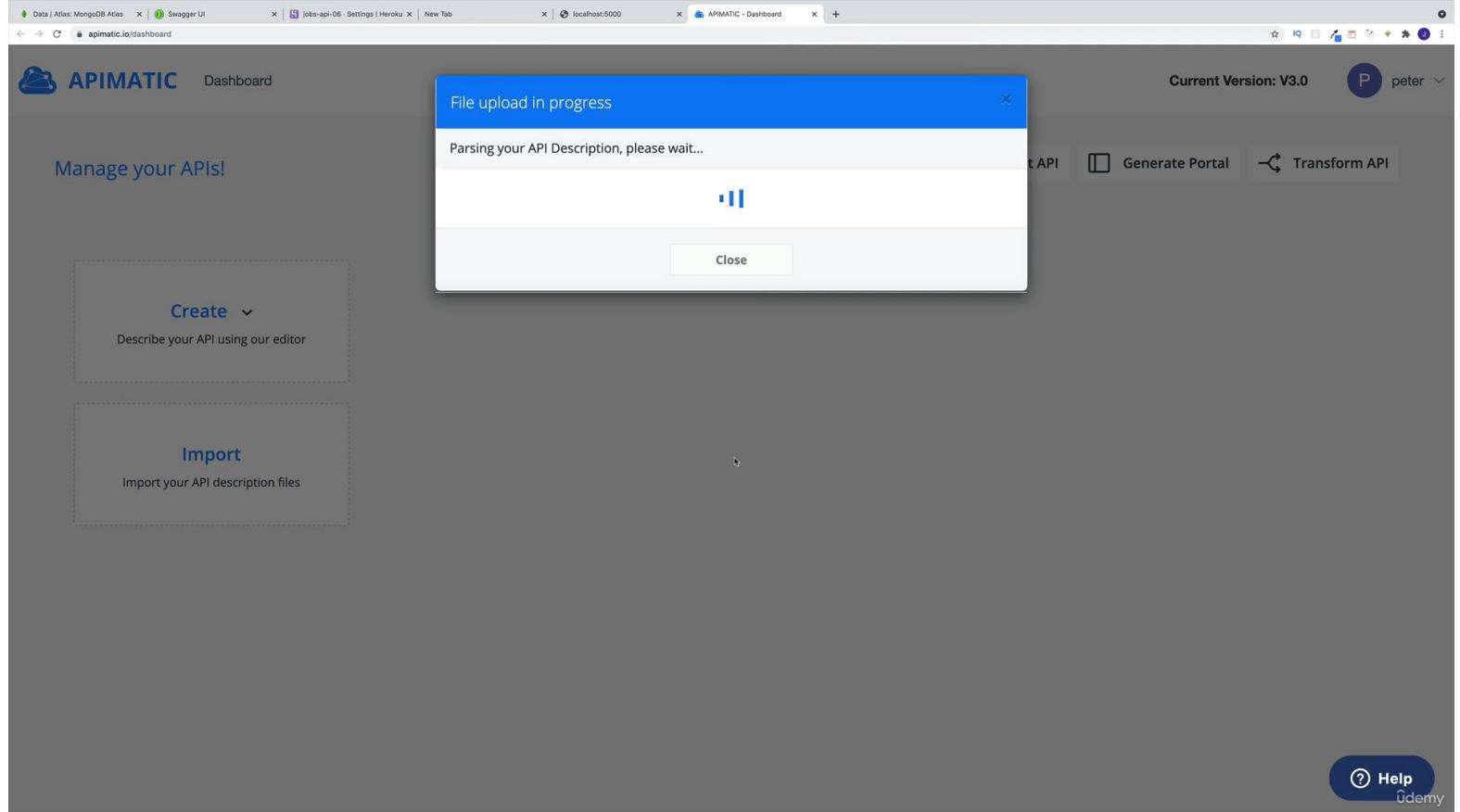
Manage your APIs! Create API Import API Generate Portal Transform API

**Create** ▾  
Describe your API using our editor

**Import**  
Import your API description files

Help Udemy

chọn Import và point tới file Postman export



The screenshot shows the APIMATIC dashboard with a modal open for the '06-Jobs-API'. The modal has two main sections: 'Create' (Describe your API using our editor) and 'Import' (Import your API description files). At the bottom of the modal, there are three buttons: 'Generate', 'Edit API', and '...'. The 'Edit API' button is highlighted with a red box. The top right corner of the dashboard shows the current version as V3.0 and a user profile for 'peter'.

The screenshot shows the APIMATIC API Entity settings page for the '06-Jobs-API'. On the left, there is a sidebar with a red box around the 'Settings' section, which contains options like 'Basic Settings', 'Server Configuration', 'Authentication', 'CodeGen Settings', 'TestGen Settings', and 'API Errors'. The main area shows 'Basic Settings' for the API, including fields for 'Name' (06-Jobs-API), 'Image URL' (/img/no-image.jpg), 'Version' (1.0), and 'Description'. A 'Public' toggle switch is also present. On the far right, there is a 'Save Basic Settings' button and a 'Help' button.

rất nhiều options >> tuy nhiên chúng ta chỉ chỉnh sửa 1 số thứ

API Name: 06-Jobs-API

Basic Settings

Name: **Jobs API**

Image URL: /img/no-image.jpg

Version: 1.0

Description:

Public:

Contact Information

Name:

Email:

Help Udemy

This screenshot shows the 'Basic Settings' section of the API configuration interface. It includes fields for the API name ('Jobs API'), image URL ('/img/no-image.jpg'), version ('1.0'), and a large text area for a description. A 'Public' toggle switch is turned on. Below this is a 'Contact Information' section with fields for 'Name' and 'Email'. A 'Help Udemy' button is visible in the bottom right corner.

xong nhớ save

API Name: 06-Jobs-API

Server Configuration

Default Settings

Environment: production

Server: Server 1

Environment: production

Description: No description found

Servers

Name: Server 1

URL: http://example.com

Add new

Save Config Settings

Help Udemy

This screenshot shows the 'Server Configuration' section of the API interface. It displays 'Default Settings' for the environment ('production') and server ('Server 1'). Below this, there's a list of environments ('production') and a 'Servers' section containing one entry ('Server 1' with URL 'http://example.com'). A 'Save Config Settings' button is at the top right, and a 'Help Udemy' button is in the bottom right.

Welcome to Jobs API

[Documentation](#)

lấy url bên heroku

06-Jobs-API

Version: 1.0

Generate

Settings

Basic Settings

Server Configuration

Authentication

CodeGen Settings

TestGen Settings

API Errors

Endpoints 7

Types 4

Test Cases 7

Save Config Settings

Server Configuration

Environment

production

Server

Server 1

Environment

production

+ Environment

Description

No description found

Edit environment

Servers

Name

Server 1

URL

https://jobs-api-06.herokuapp.com/api/v1

Add new

Template Parameters

Help

nhớ thêm /api/v1 vào

API Name: 06-Jobs-API

Version: 1.0

Generate

Settings

Basic Settings

Server Configuration

**Authentication**

CodeGen Settings

TestGen Settings

API Errors

Endpoints 7

Types 4

Test Cases 7

Type: OAuth2.0 - Bearer Token

Parameters

Add new

Additional Headers

Add new

Save Authentication Settings

Help

This screenshot shows the 'Authentication' section of the API settings. The 'Type' dropdown is set to 'OAuth2.0 - Bearer Token'. Below it are sections for 'Parameters' and 'Additional Headers', each with an 'Add new' button. A red box highlights the 'Authentication' tab in the sidebar.

default

API Name: 06-Jobs-API

Version: 1.0

Generate

Settings

**Endpoints 7**

Misc

POST Register User

POST Login User

POST Create Job

GET Get All Jobs

GET Get Single Job

PATCH Update Job

DELETE Delete Job

+ New Endpoint

Import CURL

Types 4

Test Cases 7

Name: Create Job

Description: e.g., Comments

Group: Misc

Route: POST /jobs

Response Type: Void

Server: Default Server

Advanced Settings:

- Skip authentication? (off)
- Allow dynamic form fields? (off)
- Allow dynamic query params? (off)
- Collect params? (off)
- Is this a streaming endpoint? (off)
- Is response an array? (off)

Parameters

Name	Description

Save Endpoint

Delete Endpoint

Duplicate Endpoint

Help

This screenshot shows the 'Endpoint Settings' for the 'Create Job' endpoint. It includes fields for 'Name' (Create Job), 'Description' (e.g., Comments), 'Group' (Misc), 'Route' (POST /jobs), 'Response Type' (Void), and 'Server' (Default Server). The 'Advanced Settings' section contains several toggle switches for optional features, all of which are currently off. A red box highlights the 'Endpoints' tab in the sidebar.

vào endpoints

Servers  
<https://jobs-api-06.herokuapp.com/api/v1> Authorize 

## Auth

- POST** /auth/register Register User
- POST** /auth/login Login User

## Jobs

- POST** /jobs Create Job
- GET** /jobs Get All Jobs
- GET** /jobs/{id} Get Single Job
- PATCH** /jobs/{id} Update Job
- DELETE** /jobs/{id} Delete Job

### Schemas

nhớ lại >>> 2 thằng đầu tiên là để public >>> nhưng những thằng sau (JOBS) phải có Authentication

Data | Atlas: MongoDB Atlas | Swagger UI | jobs-api-06 | Heroku | https://jobs-api-06.herokuapp.com/api/v1 | New Tab | localhost:5000 | APIMATIC - API Entity | +

API Name: 06-Jobs-API

Version: 1.0

Generate

Settings

Endpoints (7)

- Misc
  - POST** Register User
  - POST** Login User
  - GET** Get All Jobs
  - GET** Get Single Job
  - PATCH** Update Job
  - POST** Create Job
  - DELETE** Delete Job
- + New Endpoint
- Import CURL
- Types (4)
- Test Cases (7)

Endpoint Settings

Name: Register User

Description: e.g., Comments

Group: Auth

Route: POST /auth/register

Response Type: Void

Server: Default Server

Advanced Settings

Skip authentication?

Allow dynamic form fields?

Allow dynamic query params?

Collect params?

Is this a streaming endpoint?

Is response an array?

Parameters

Name	Description

Help 

mặc định tất cả đều có authentication

The screenshot shows the APIMATIC API Management Platform interface. On the left sidebar, under the 'Endpoints' section, there is a red box around the 'Auth' category. Inside 'Auth', there is another red box around the 'POST Register User' endpoint. The main panel displays the 'Endpoint Settings' for this endpoint. The 'Name' field is set to 'Register User', and the 'Group' field is set to 'Auth'. The 'Route' field shows a POST method mapped to the URL '/auth/register'. The 'Response Type' is set to 'Void'. In the 'Advanced Settings' section, the 'Skip authentication?' toggle is turned on. The 'Parameters' section is currently empty. A green 'Saved!' message is visible at the top right.

save xong sẽ có folder auth

làm tương tự với login

The screenshot shows the APIMATIC API Management Platform interface. On the left sidebar, under the 'Endpoints' section, there is a red box around the 'Auth' category. Inside 'Auth', there is another red box around the 'POST Login User' endpoint. The main panel displays the 'Endpoint Settings' for this endpoint. The 'Name' field is set to 'Login User', and the 'Group' field is set to 'Auth'. The 'Route' field shows a POST method mapped to the URL '/auth/login'. The 'Response Type' is set to 'Void'. In the 'Advanced Settings' section, the 'Skip authentication?' toggle is turned on. The 'Parameters' section is currently empty. A green 'Saved!' message is visible at the top right.

API Name: Jobs API

Version: 1.0

Generate

Settings

Endpoints (7)

- Auth
- Jobs
  - POST** Create Job
  - DELETE** Delete Job
  - GET** Get All Jobs
  - PATCH** Update Job
  - GET** Get Single Job

New Endpoint

Import CURL

Types (4)

Test Cases (7)

Name: Create Job

Description: e.g., Comments

Group: Jobs

Route: POST /jobs

Response Type: Void

Server: Default Server

Advanced Settings (disabled):

- Skip authentication?
- Allow dynamic form fields?
- Allow dynamic query params?
- Collect params?
- Is this a streaming endpoint?
- Is response an array?

Parameters:

Name	Description

Help Udemy

vào những thằng jobs, đổi Group thành Jobs

APIMATIC Dashboard

Current Version: V3.0

peter

Manage your APIs!

Create API Import API Generate Portal Transform API

06-Jobs-API

Add Description

Import API Replace Existing Version Fork API Export API (highlighted)

API Integration Keys View API Logs

Create

Describe your API using our editor

Import

Import your API description files

Help Udemy

vào ... , chọn Export API

phải chọn đúng format

```
openapi: 3.0.0
info:
  title: Jobs API
  contact: {}
  version: '1.0'
servers:
- url: https://jobs-api-06.herokuapp.com/api/v1
  variables: {}
paths:
  /auth/register:
    post:
      tags:
        - Auth
      summary: Register User
      operationId: RegisterUser
      parameters: []
      requestBody:
        description: ''
        content:
          application/json:
            schema:
              $ref: '#/components/schemas/RegisterUserRequest'
            example:
              name: bob
              email: bob@gmail.com
              password: secret
            required: true
      responses:
        '200':
          description: ''
          headers: {}
        deprecated: false
        security: []
  /auth/login:
    post:
      tags:
        - Auth
      summary: Login User
      operationId: LoginUser
      parameters: []
      requestBody:
        description: ''
        content:
          application/json:
            schema:
              $ref: '#/components/schemas/LoginUserRequest'
            example:
              email: susan@gmail.com
              password: secret
            required: true
      responses:
        '200':
```

sau khi xong sẽ thấy

## Swagger UI Editor

Google search results for "swagger ui editor". The first result is a link to the Swagger Editor tool.

https://editor.swagger.io

**Swagger Editor**

"This is a sample server Petstore · server. You can find out more about · Swagger at [http://swagger.io](http://swagger.io) or on [irc.freenode.net, #swagger](...). You've visited this page many times. Last visit: 7/21/21"

https://swagger.io › tools › swagger-editor

**API Editor - Download or Try it in the Cloud - Swagger**

Swagger Editor ... Design, describe, and document your API on the first open source editor fully dedicated to OpenAPI-based APIs. The **Swagger Editor** is an easy ...

People also ask :

- What is the difference between swagger UI and swagger editor?
- What is swagger editor used for?
- How do I use swagger online editor?
- How do I install swagger UI on Windows?

Feedback

https://swagger.io › tools › swagger-ui

```
openapi: 3.0.0
info:
  title: Jobs API
  contact: {}
  version: '1.0'
servers:
- url: https://jobs-api-06.herokuapp.com/api/v1
  variables: {}
paths:
  /auth/register:
    post:
      tags:
        - Auth
      summary: Register User
      operationId: RegisterUser
      parameters: []
      requestBody:
        description: ''
        content:
          application/json:
            schema:
              $ref: '#/components/schemas/RegisterUserRequest'
            example:
              name: bob
              email: bob@gmail.com
              password: secret
            required: true
      responses:
        '200':
          description: ''
          headers: {}
          deprecated: false
          security: []
  /auth/login:
    post:
      tags:
        - Auth
      summary: Login User
      operationId: LoginUser
      parameters: []
      requestBody:
        description: ''
        content:
          application/json:
            schema:
              $ref: '#/components/schemas/LoginUserRequest'
            example:
              email: susan@gmail.com
              password: secret
            required: true
      responses:
        '200':
```

COPY

Swagger Editor. File ▾ Edit ▾ Insert ▾ Generate Server ▾ Generate Client ▾

```

1 / 
2 required:
3   - company
4   - position
5 type: object
6 properties:
7   company:
8     type: string
9   position:
10    type: string
11 example:
12   company: google
13   position: front-end developer
14 UpdateJobRequest:
15   title: UpdateJobRequest
16   required:
17     - company
18     - position
19   type: object
20   properties:
21     company:
22       type: string
23     position:
24       type: string
25 example:
26   company: random
27   position: intern
28 securitySchemes:
29   httpBearer:
30     type: http
31     scheme: bearer
32 security:
33   - httpBearer: []
34 tags:
35   - name: Misc
36   description: ''
37   - name: Auth
38   description: ''
39   - name: Jobs
40   description: ''

```

**Misc**

**Auth**

- POST /auth/register Register User
- POST /auth/login Login User

**Jobs**

- POST /jobs Create Job
- GET /jobs Get All Jobs
- GET /jobs /60edc7981d285605b73ec5f9333 Get Single Job

dán vào

xóa thằng Misc

Swagger Editor. File ▾ Edit ▾ Insert ▾ Generate Server ▾ Generate Client ▾

```

1 / 
2 title: CreateJobRequest
3 required:
4   - company
5   - position
6 type: object
7 properties:
8   company:
9     type: string
10  position:
11    type: string
12 example:
13   company: google
14   position: front-end developer
15 UpdateJobRequest:
16   title: UpdateJobRequest
17   required:
18     - company
19     - position
20   type: object
21   properties:
22     company:
23       type: string
24     position:
25       type: string
26 example:
27   company: random
28   position: intern
29 securitySchemes:
30   httpBearer:
31     type: http
32     scheme: bearer
33 security:
34   - httpBearer: []
35 tags:
36   - name: Auth
37   description: ''
38   - name: Jobs
39   description: ''

```

**Auth**

- POST /auth/register Register User
- POST /auth/login Login User

**Jobs**

- POST /jobs Create Job
- GET /jobs Get All Jobs
- GET /jobs /60edc7981d285605b73ec5f9333 Get Single Job
- PATCH /jobs /60e9e5264678850745ae5098 Update Job
- DELETE /jobs /60e9e5264678850745ae5098 Delete Job

hiện id đều bị hard code ở phần params (JOBS)

Google search results for "swagger ui parameters".

About 772,000 results (0.56 seconds)

<https://swagger.io/docs/specification/describing-parameters/>

## Describing Parameters - Swagger

Note that **parameters** is an array, so, in YAML, each **parameter** definition must ... Note for Swagger UI and Swagger Editor users: **Parameters** with content are ...

You've visited this page 2 times. Last visit: 7/21/21

People also search for:

- swagger parameters in: body
- swagger-ui-express
- swagger query parameter example
- swagger ui example
- swagger editor
- swagger multiple query parameters

<https://swagger.io/docs/specification/describing-parameters/>

## Describing Parameters - Swagger

In Swagger, a path parameter is defined using `in: path` and other attributes as necessary. The parameter name must be the same as specified in the path. Also, ...

<https://swagger.io/docs/swagger-ui/usage/config/>

## Swagger UI Configuration documentation

How to configure. Swagger UI accepts configuration **parameters** in four locations. From lowest to highest precedence: The `swagger-config.yaml` in the ...

[Plugin system overview](#) · [CORS](#) · [OAuth 2.0](#) · [Deep Linking](#)

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<https://github.com/john-smilga/node-express-course/tree/main/06-jobs-ap/starter>

README.md

### Mongoose Errors

- Validation Errors
- Duplicate (Email)
- Cast Error

### Security

- helmet
- cors
- xss-clean
- express-rate-limit

### Swagger UI

```
/jobs/{id}:
  parameters:
    - in: path
      name: id
      schema:
        type: string
      required: true
      description: the job id
```

Udemy

có thể lấy thẳng trong Git link



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8. `description: Deprecated, use the appropriate `Accept` header instead.`

## Common Parameters

### Common Parameters for All Methods of a Path

Parameters shared by all operations of a path can be defined on the path level instead of the operation level. Path-level parameters are inherited by all operations of that path. A typical use case are the GET/PUT/PATCH/DELETE operations that manipulate a resource accessed via a path parameter.

```
1. paths:
2.   /user/{id}:
3.     parameters:
4.       - in: path
5.         name: id
6.         schema:
7.           type: integer
8.           required: true
9.           description: The user ID
10.      get:
11.        summary: Gets a user by ID
12.        ...
13.      patch:
14.        summary: Updates an existing user with the specified ID
15.        ...
16.      delete:
17.        summary: Deletes the user with the specified ID
18.        ...
```

Any extra parameters defined at the operation level are used together with path-level parameters:



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8. `deprecated: true`  
`description: Deprecated, use the appropriate `Accept` header instead.`

## Common Parameters

### Common Parameters for All Methods of a Path

Parameters shared by all operations of a path can be defined on the path level instead of the operation level. Path-level parameters are inherited by all operations of that path. A typical use case are the GET/PUT/PATCH/DELETE operations that manipulate a resource accessed via a path parameter.

```
1. paths:
2.   /user/{id}:
3.     parameters:
4.       - in: path
5.         name: id
6.         schema:
7.           type: integer
8.           required: true
9.           description: user ID
10.      get:
11.        summary: Gets a user by ID
12.        ...
13.      patch:
14.        summary: Updates an existing user with the specified ID
15.        ...
16.      delete:
17.        summary: Deletes the user with the specified ID
18.        ...
```

Any extra parameters defined at the operation level are used together with path-level parameters:



copy

remove những thằng hard code

```

80
tags:
- Jobs
summary: Get All Jobs
operationId: GetAllJobs
parameters: []
responses:
  '200':
    description: ''
    headers: {}
    deprecated: false
  /jobs/60edc7981d285605b73ec5f9333:
  get:
    tags:
    - Jobs
    summary: Get Single Job
    operationId: GetSingleJob
    parameters: []
    responses:
      '200':
        description: ''
        headers: {}
        deprecated: false
      /jobs/60e9e5264678850745ae5098:
  patch:
    tags:
    - Jobs
    summary: Update Job
    operationId: UpdateJob
    parameters: []
    requestBody:
      description: ''
      content:
        application/json:
          schema:
            $ref: '#/components/schemas/UpdateJobRequest'
            example:
              company: random
              position: intern

```

remove những thằng hard code

```

73
      required: true
    responses:
      '200':
        description: ''
        headers: {}
        deprecated: false
    get:
      tags:
      - Jobs
      summary: Get All Jobs
      operationId: GetAllJobs
      parameters: []
      responses:
        '200':
          description: ''
          headers: {}
          deprecated: false
        /user/{id}:
          parameters:
            - in: path
              name: id
              schema:
                type: integer
                required: true
              description: The user ID
    get:
      tags:
      - Jobs
      summary: Get Single Job
      operationId: GetSingleJob
      parameters: []
      responses:
        '200':
          description: ''
          headers: {}
          deprecated: false
        patch:
          tags:

```

dán ra

Swagger Editor. File ▾ Edit ▾ Insert ▾ Generate Server ▾ Generate Client ▾

Supported by SMARTBEAR

```

13 require: true
14 responses:
15   '200':
16     description: ''
17     headers: {}
18     deprecated: false
19 get:
20   tags:
21   - Jobs
22   summary: Get All Jobs
23   operationId: GetAllJobs
24   parameters: []
25   responses:
26     '200':
27       description: ''
28       headers: {}
29     deprecated: false
30 /jobs/{id}:
31   parameters:
32   - in: path
33     name: id
34     schema:
35       type: string
36     required: true
37   description: The job ID
38 get:
39   tags:
40   - Jobs
41   summary: Get Single Job
42   operationId: GetSingleJob
43   parameters: []
44   responses:
45     '200':
46       description: ''
47       headers: {}
48     deprecated: false
49 patch:
50   tags:

```

Servers

<https://jobs-api-06.herokuapp.com/api/v1>

Authorize

## Auth

POST /auth/register Register User

POST /auth/login Login User

## Jobs

POST /jobs Create Job

GET /jobs Get All Jobs

GET /jobs/{id} Get Single Job

PATCH /jobs/{id} Update Job

DELETE /jobs/{id} Delete Job

## Schemas

đổi thành Jobs

Swagger Editor. File ▾ Edit ▾ Insert ▾ Generate Server ▾ Generate Client ▾

Supported by SMARTBEAR

```

1 openapi: 3.0.0
2 info:
3   title: Jobs API
4   contact: {}
5   version: '1.0'
6 servers:
7   url: https://jobs-api-06.herokuapp.com/api/v1
8   variables: {}
9 paths:
10  /auth/register:
11    post:
12      tags:
13      - Auth
14      summary: Register User
15      operationId: RegisterUser
16      parameters: []
17      requestBody:
18        description: ''
19        content:
20          application/json:
21            schema:
22              $ref: '#/components/schemas/RegisterUserRequest'
23            example:
24              name: bob
25              email: bob@gmail.com
26              password: secret
27            required: true
28      responses:
29        '200':
30          description: ''
31          headers: {}
32        deprecated: false
33        security: []
34  /auth/login:
35    post:

```

Servers

<https://jobs-api-06.herokuapp.com/api/v1>

Authorize

## Auth

POST /auth/register Register User

Parameters

No parameters

Request body **required**

application/json

Example Value | Schema

```
{
  "name": "bob",
  "email": "bob@gmail.com",
  "password": "secret"
}
```

Responses

execute

```

1 openapi: 3.0.0
2 info:
3   title: Jobs API
4   contact: {}
5   version: '1.0'
6 servers:
7   - url: https://jobs-api-06.herokuapp.com/api/v1
8     variables: {}
9 paths:
10  /auth/register:
11    post:
12      tags:
13        - Auth
14      summary: Register User
15      operationId: RegisterUser
16      parameters: []
17      requestBody:
18        description: ''
19        content:
20          application/json:
21            schema:
22              $ref: '#/components/schemas/RegisterUserRequest'
23      example:
24        name: bob
25        email: bob@gmail.com
26        password: secret
27      required: true
28      responses:
29        '200':
30          description: ''
31          headers: {}
32        deprecated: false
33        security: []
34  /auth/login:
35    post:
36      tags:

```

## execute

```

1 openapi: 3.0.0
2 info:
3   title: Jobs API
4   contact: {}
5   version: '1.0'
6 servers:
7   - url: https://jobs-api-06.herokuapp.com/api/v1
8     variables: {}
9 paths:
10  /auth/register:
11    post:
12      tags:
13        - Auth
14      summary: Register User
15      operationId: RegisterUser
16      parameters: []
17      requestBody:
18        description: ''
19        content:
20          application/json:
21            schema:
22              $ref: '#/components/schemas/RegisterUserRequest'
23      example:
24        name: bob
25        email: bob@gmail.com
26        password: secret
27      required: true
28      responses:
29        '200':
30          description: ''
31          headers: {}
32        deprecated: false
33        security: []
34  /auth/login:
35    post:
36      tags:

```

## response

mã thăng dưới vẫn bị khóa

```

1 openapi: 3.0.0
2 info:
3   title: Jobs API
4   contact: {}
5   version: '1.0'
6 servers:
7   - url: https://jobs-api-06.herokuapp.com/api/v1
8   variables: {}
9 paths:
10  /auth/register:
11    post:
12      tags:
13        - Auth
14      summary: Register User
15      operationId: RegisterUser
16      parameters: []
17      requestBody:
18        description: ''
19        content:
20          application/json:
21            schema:
22              $ref: '#/components/schemas/RegisterUserRequest'
23            example:
24              name: bob
25              email: bob@gmail.com
26              password: secret
27            required: true
28      responses:
29        '200':
30          description: ''
31          headers: {}
32        deprecated: false
33        security: []
34  /auth/login:
35    post:
36      tags:

```

mã thăng dưới vẫn bị khóa

Copy Token và chọn Authorize

Dán vào

```

1 openapi: 3.0.0
2 info:
3   title: Jobs API
4   contact: {}
5   version: '1.0'
6 servers:
7   - url: https://jobs-api-06.herokuapp.com/api/v1
8   variables: {}
9 paths:
10  /auth/register:
11    post:
12      tags:
13        - Auth
14      summary: Register User
15      operationId: RegisterUser
16      parameters: []
17      requestBody:
18        description: ''
19        content:
20          application/json:
21            schema:
22              $ref: '#/components/schemas/RegisterUserRequest'
23      example:
24        name: bob
25        email: bob@gmail.com
26        password: secret
27      required: true
28      responses:
29        '200':
30          description: ''
31          headers: {}
32        deprecated: false
33        security: []
34  /auth/login:
35    post:
36      ...

```

dán vào

Dán vào

```

1 openapi: 3.0.0
2 info:
3   title: Jobs API
4   contact: {}
5   version: '1.0'
6 servers:
7   - url: https://jobs-api-06.herokuapp.com/api/v1
8   variables: {}
9 paths:
10  /auth/register:
11    post:
12      tags:
13        - Auth
14      summary: Register User
15      operationId: RegisterUser
16      parameters: []
17      requestBody:
18        description: ''
19        content:
20          application/json:
21            schema:
22              $ref: '#/components/schemas/RegisterUserRequest'
23      example:
24        name: bob
25        email: bob@gmail.com
26        password: secret
27      required: true
28      responses:
29        '200':
30          description: ''
31          headers: {}
32        deprecated: false
33        security: []
34  /auth/login:
35    post:
36      ...

```

The screenshot shows the Swagger Editor interface with the following details:

- Left Panel (API Definition):** The API definition is displayed in YAML format. It includes sections for `openapi: 3.0.0`, `info` (with title "Jobs API"), `servers` (with URL `https://jobs-api-06.herokuapp.com/api/v1`), and two endpoints:
  - `/auth/register`: A `post` method with a `tags` array containing "Auth". It has a `summary` of "Register User", an `operationId` of "RegisterUser", and a `requestBody` with a `content` object containing a schema for `application/json`. The schema's `$ref` points to "#/components/schemas/RegisterUserRequest". It also includes an `example` object with fields `name`, `email`, and `password`, and a `required` field set to `true`.
  - `/auth/login`: A `post` method with a `tags` array.
- Right Panel (Request Details):**
  - Curl:** A command-line example for sending a POST request to `https://jobs-api-06.herokuapp.com/api/v1/jobs` with a JSON body containing `"company": "google"` and `"position": "front-end developer"`.
  - Request URL:** `https://jobs-api-06.herokuapp.com/api/v1/jobs`
  - Server response:**
    - Code:** 201
    - Response body:** Undocumented. The response body is shown as a JSON object:

```
{  
  "job": {  
    "status": "pending",  
    "_id": "60f88267765dd400042f95e5",  
    "company": "google",  
    "position": "front-end developer",  
    "createdBy": "60f8822f765dd400042f95e3",  
    "createdAt": "2021-07-21T20:24:07.050Z",  
    "updatedAt": "2021-07-21T20:24:07.050Z",  
    "__v": 0  
  }  
}
```

**Download** button
    - Response headers:**

```
content-length: 238  
content-type: application/json; charset=utf-8
```
    - Responses:** A section for managing responses.

test thử

The screenshot shows the Swagger Editor interface with a JSON API definition on the left and its corresponding server response on the right.

**API Definition (Left):**

```
1 openapi: 3.0.0
2 info:
3   title: Jobs API
4   contact: {}
5   version: '1.0'
6 servers:
7   - url: https://jobs-api-06.herokuapp.com/api/v1
8   variables: {}
9 paths:
10  /auth/register:
11    post:
12      tags:
13        - Auth
14      summary: Register User
15      operationId: RegisterUser
16      parameters: []
17      requestBody:
18        description: ''
19        content:
20          application/json:
21            schema:
22              $ref: '#/components/schemas/RegisterUserRequest'
23            example:
24              name: bob
25              email: bob@gmail.com
26              password: secret
27            required: true
28      responses:
29        '200':
30          description: ''
31          headers: {}
32          deprecated: false
33          security: []
34  /auth/login:
35    post:
```

**Server Response (Right):**

URL: <https://jobs-api-06.herokuapp.com/api/v1/jobs>

Server response:

Code Details

200 Response body

```
{
  "jobs": [
    {
      "status": "pending",
      "_id": "60f88267765dd400042f95e5",
      "company": "google",
      "position": "front-end developer",
      "createdBy": "60f882f765dd400042f95e3",
      "createdAt": "2021-07-21T20:24:07.050Z",
      "updatedAt": "2021-07-21T20:24:07.050Z",
      "__v": 0
    }
  ],
  "count": 1
}
```

Download

Response headers

```
content-length: 251
content-type: application/json; charset=utf-8
```

Responses

Code Description Links

200 No links

GET /jobs/{id} Get Single Job

Swagger Editor - editor.swagger.io

```

1 openapi: 3.0.0
2 info:
3   title: Jobs API
4   contact: {}
5   version: '1.0'
6 servers:
7   - url: https://jobs-api-06.herokuapp.com/api/v1
8 variables: {}
9 paths:
10 /auth/register:
11   post:
12     tags:
13       - Auth
14     summary: Register User
15     operationId: RegisterUser
16     parameters: []
17     requestBody:
18       description: ''
19       content:
20         application/json:
21           schema:
22             $ref: '#/components/schemas/RegisterUserRequest'
23       example:
24         name: bob
25         email: bob@gmail.com
26         password: secret
27       required: true
28     responses:
29       '200':
30         description: ''
31         headers: {}
32       deprecated: false
33       security: []
34 /auth/login:
35   post:
36     tags:

```

Response headers

```

content-length: 251
content-type: application/json; charset=utf-8

```

Responses

Code	Description	Links
200		No links

**GET /jobs/{id} Get Single Job**

Try it out

Parameters

Name	Description
<b>id</b> * required	The job ID
string	
(path)	<input type="text" value="id"/>

Responses

Code	Description	Links
200		No links

Swagger Editor - editor.swagger.io

```

1 openapi: 3.0.0
2 info:
3   title: Jobs API
4   contact: {}
5   version: '1.0'
6 servers:
7   - url: https://jobs-api-06.herokuapp.com/api/v1
8 variables: {}
9 paths:
10 /auth/register:
11   post:
12     tags:
13       - Auth
14     summary: Register User
15     operationId: RegisterUser
16     parameters: []
17     requestBody:
18       description: ''
19       content:
20         application/json:
21           schema:
22             $ref: '#/components/schemas/RegisterUserRequest'
23       example:
24         name: bob
25         email: bob@gmail.com
26         password: secret
27       required: true
28     responses:
29       '200':
30         description: ''
31         headers: {}
32       deprecated: false
33       security: []
34 /auth/login:
35   post:
36     tags:

```

content-length: 251  
content-type: application/json; charset=utf-8

Responses

Code	Description	Links
200		No links

**GET /jobs/{id} Get Single Job**

Cancel

Parameters

Name	Description
<b>id</b> * required	The job ID
string	
(path)	<input type="text" value="60f88267765dd400042f95e5"/>

Execute

Responses

Code	Description	Links
200		No links

dan id vào

Swagger Editor. File ▾ Edit ▾ Insert ▾ Generate Server ▾ Generate Client ▾

Supported by SMARTBEAR

```

1 openapi: 3.0.0
2 info:
3   title: Jobs API
4   contact: {}
5   version: '1.0'
6 servers:
7   - url: https://jobs-api-06.herokuapp.com/api/v1
8   variables: {}
9 paths:
10  /auth/register:
11    post:
12      tags:
13        - Auth
14      summary: Register User
15      operationId: RegisterUser
16      parameters: []
17      requestBody:
18        description: ''
19        content:
20          application/json:
21            schema:
22              $ref: '#/components/schemas/RegisterUserRequest'
23            example:
24              name: bob
25              email: bob@gmail.com
26              password: secret
27            required: true
28      responses:
29        '200':
30          description: ''
31          headers: {}
32          deprecated: false
33          security: []
34  /auth/login:
35    post:
36      tags:

```

curl -X 'GET' \
 'https://jobs-api-06.herokuapp.com/api/v1/jobs/60f88267765dd400042f95e5' \
 -H 'accept: \*/\*' \
 -H 'Authorization: Bearer eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9eyJ1c2VySWQiOiI2MGY40DIyZjc2NWRkNDAwMDQyZjk1ZTMiLCJuYW1lIjoiYm9iIi' \
 -o /tmp/output.json

**Request URL**

<https://jobs-api-06.herokuapp.com/api/v1/jobs/60f88267765dd400042f95e5>

**Server response**

Code	Details
200	<b>Response body</b> <pre>{   "job": {     "status": "pending",     "_id": "60f88267765dd400042f95e5",     "company": "google",     "position": "front-end developer",     "createdBy": "60f8822f765dd400042f95e3",     "createdAt": "2021-07-21T20:24:07.050Z",     "updatedAt": "2021-07-21T20:24:07.050Z",     "__v": 0   } }</pre> <div style="text-align: right;"> <a href="#">Copy</a> <a href="#">Download</a> </div> <b>Response headers</b> <pre>content-length: 238 content-type: application/json; charset=utf-8</pre>

**Responses**

Code	Description	Links
200		No links

ok

sau khi đã test xong hết >>> chúng ta muốn add nó vào application của chúng ta

Screenshot of a VS Code interface showing the package.json file. The file lists various dependencies, with "swagger-ui-express", "xss-clean", and "yamljs" highlighted by red boxes.

```

{
  "dependencies": {
    "bcryptjs": "^2.4.3",
    "cors": "^2.8.5",
    "dotenv": "^10.0.0",
    "express": "^4.17.1",
    "express-async-errors": "^3.1.1",
    "express-rate-limit": "^5.3.0",
    "helmet": "^4.6.0",
    "http-status-codes": "^2.1.4",
    "joi": "^17.4.0",
    "jsonwebtoken": "^8.5.1",
    "mongoose": "^5.13.2",
    "rate-limiter": "^0.2.0",
    "swagger-ui-express": "^4.1.6",
    "xss-clean": "^0.1.1",
    "yamljs": "^0.3.0"
  },
  "devDependencies": {
  }
}

```

TERMINAL

```

> node app.js
Server is listening on port 5000...
^C
smilga@Smilgas-iMac jobs-api-06 %

```

chúng ta cần 2 thằng này

yamljs >> convert yaml thành code app chúng ta có thể đọc

Screenshot of the Swagger Editor interface. On the left, the YAML code for the API is shown. On the right, the generated API documentation is displayed, including endpoints for Auth and Jobs.

**Swagger Editor** (Supported by SMARTBEAR)

```

openapi: 3.0.0
info:
  title: Jobs API
  contact: {}
  version: '1.0'
servers:
  - url: https://jobs-api-06.herokuapp.com/api/v1
variables: {}
paths:
  /auth/register:
    post:
      tags:
        - Auth
      summary: Register User
      operationId: RegisterUser
      parameters: []
      requestBody:
        description: ''
        content:
          application/json:
            schema:
              $ref: '#/components/schemas/RegisterUserRequest'
            example:
              name: bob
              email: bob@gmail.com
              password: secret
            required: true
      responses:
        '200':
          description: ''
          headers: {}
          deprecated: false
          security: []
  /auth/login:
    post:
      tags:
        - Auth
      summary: Login User

```

**Jobs API** (1.0 OAS3)

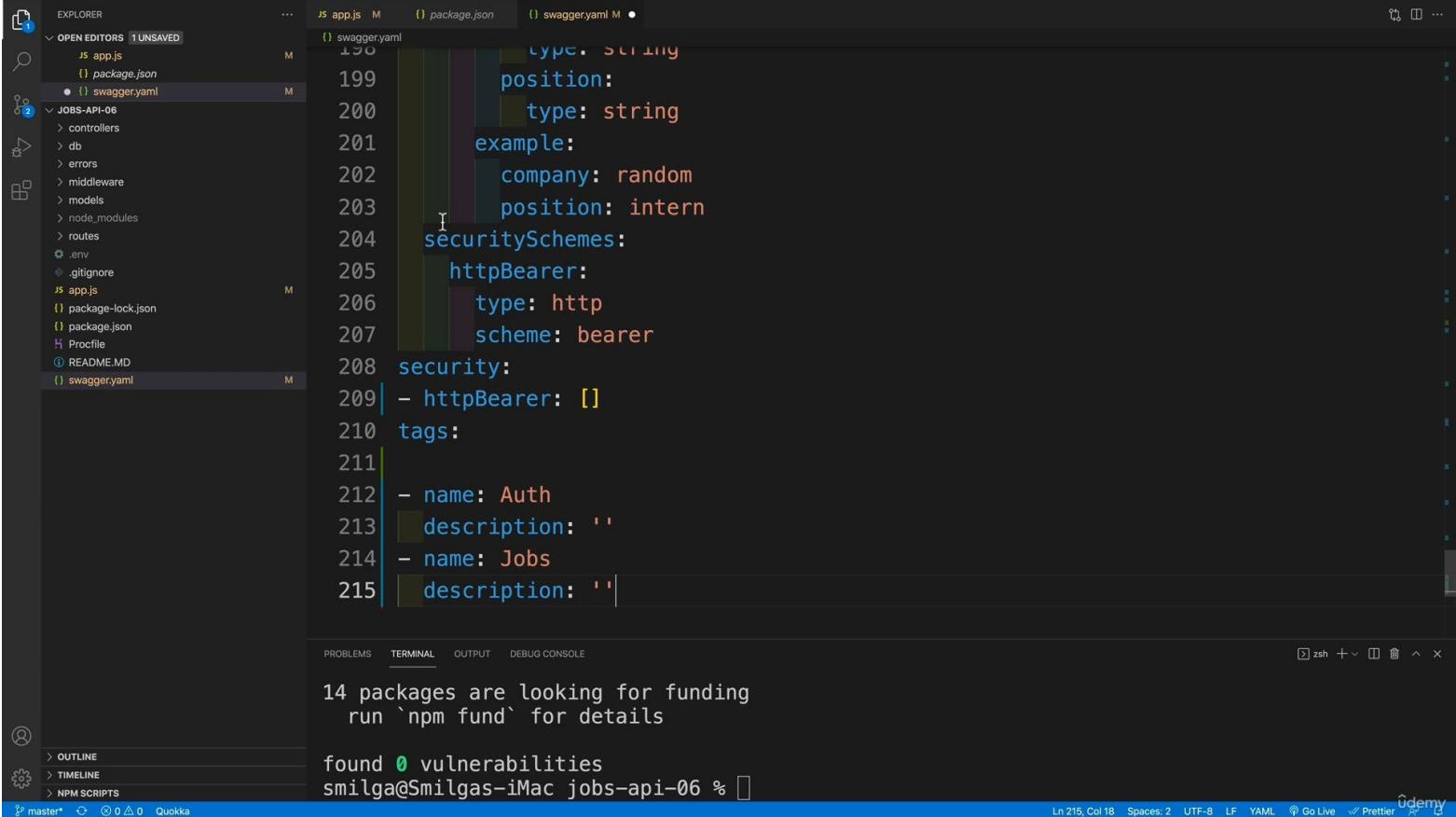
**Auth**

- POST /auth/register Register User
- POST /auth/login Login User

**Jobs**

- POST /jobs Create Job

copy hết code trong đây



```
199     type: string
200   position:
201     type: string
202   example:
203     company: random
204   position: intern
205   securitySchemes:
206     httpBearer:
207       type: http
208       scheme: bearer
209   security:
210     - httpBearer: []
211   tags:
212     - name: Auth
213       description: ''
214     - name: Jobs
215       description: ''
```

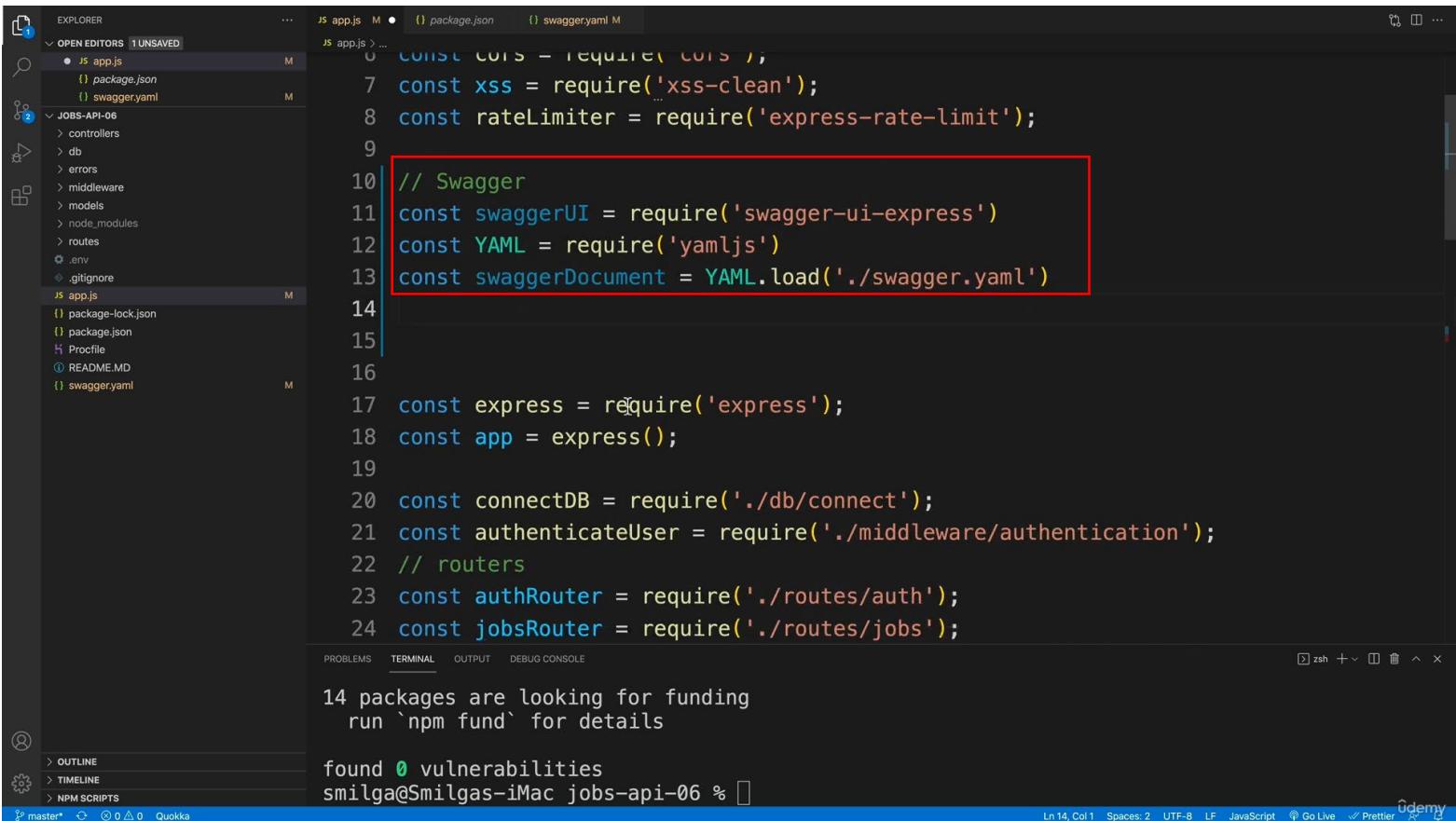
PROBLEMS TERMINAL OUTPUT DEBUG CONSOLE

14 packages are looking for funding  
run `npm fund` for details

found 0 vulnerabilities

smilga@Smilgas-iMac jobs-api-06 %

tạo file swagger.yaml và dán vào



```
1 const cors = require('cors');
2 const xss = require('xss-clean');
3 const rateLimiter = require('express-rate-limit');
4
5 // Swagger
6 const swaggerUI = require('swagger-ui-express')
7 const YAML = require('yamljs')
8 const swaggerDocument = YAML.load('./swagger.yaml')
9
10
11
12
13
14
15
16
17 const express = require('express');
18 const app = express();
19
20 const connectDB = require('./db/connect');
21 const authenticateUser = require('./middleware/authentication');
22 // routers
23 const authRouter = require('./routes/auth');
24 const jobsRouter = require('./routes/jobs');
```

PROBLEMS TERMINAL OUTPUT DEBUG CONSOLE

14 packages are looking for funding  
run `npm fund` for details

found 0 vulnerabilities

smilga@Smilgas-iMac jobs-api-06 %

vào app.js và import 2 thằng trên

```
app.use('/api-docs', swaggerUI.serve, swaggerUI.setup(swaggerDocument));
```

The screenshot shows the VS Code interface with the following details:

- Explorer View:** Shows the project structure with files like `app.js`, `package.json`, and `swagger.yaml`.
- Terminal:** Displays the command `npm fund` and the output "14 packages are looking for funding run `npm fund` for details".
- Output View:** Displays the command `npm audit` and the output "found 0 vulnerabilities".
- Status Bar:** Shows the current branch is `master`, and the status bar includes "Ln 37, Col 1 Spaces: 2 UTF-8 LF JavaScript Go Live Prettier".

```
git commit -m "swagger docs added"
[master 99e6f6f] swagger docs added
 2 files changed, 4 insertions(+), 5 deletions(-)
git push heroku master
```

The screenshot shows the VS Code interface with the following details:

- Explorer View:** Shows the project structure with files like `app.js`, `package.json`, and `swagger.yaml`.
- Terminal:** Displays the commands `git commit -m "swagger docs added"`, `git push heroku master`, and the output showing 2 files changed with 4 insertions and 5 deletions.
- Status Bar:** Shows the current branch is `master`, and the status bar includes "Ln 35, Col 4 Spaces: 2 UTF-8 LF JavaScript Go Live Prettier".

add, commit và push